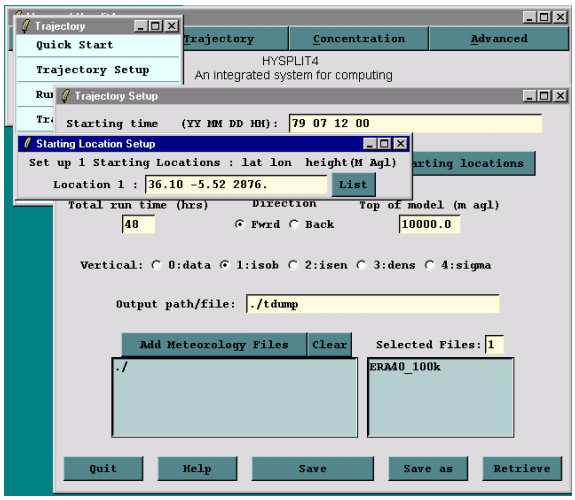
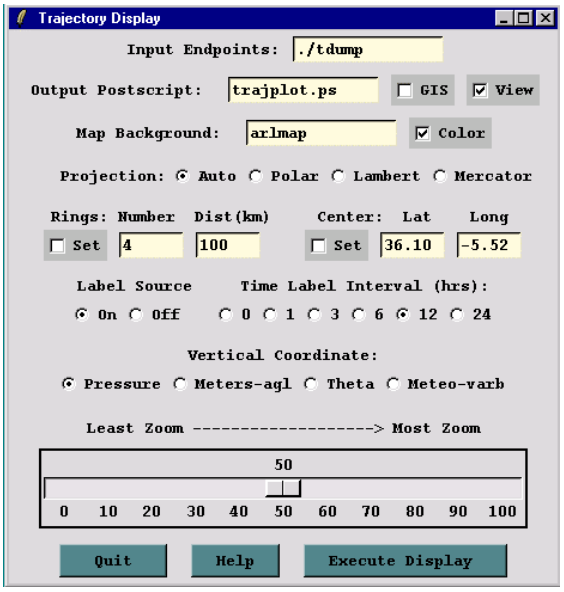
Trajectory Example Calculation

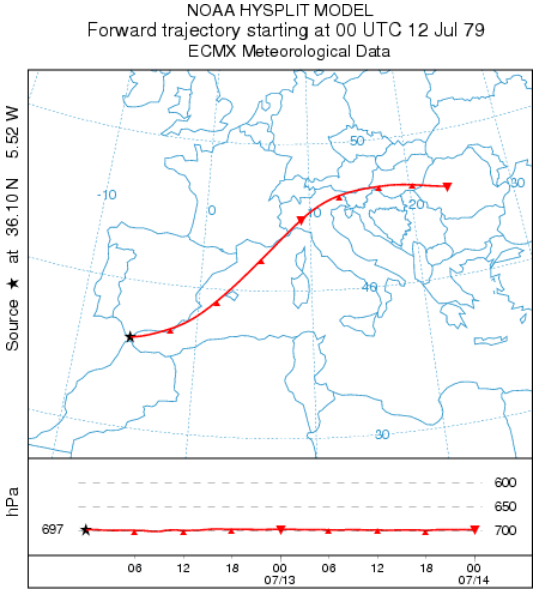
A pollutant particle's transport can be illustrated by a trajectory calculation. For this example select the southern most point in Spain, set the height for about 2876 m AGL, the duration to 48 hours, and the vertical motion method should be isobaric. In this way we can compare the trajectory result to the 700 hPa height fields. When properly configured, the GUI menu should be similar to that shown below on the left. Then press "Save" to close the menu and then "Run Standard Model". After the run has completed, press "Trajectory Display," select any special options, and then "Execute Display."



CONTROL file



The relationship of the trajectory to the temporal and spatial variations of the 700 hPA height field is illustrated in the attached animation which was created using only the standard tools that come with HYSPLIT. These procedures will be discussed in more detail later. In addition, there are several tasks that should be completed in this section to become familiar with more of the program options: 1) run this case from the command line, 2) draw concentric distance circles on the map, and 3) force the map center to a different location.



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